

Amendments to the Claims

No amendments are provided in this supplemental response with declaration. Provided below is a listing of claims for the convenience of the examiner.

Listing of Claims

1. (Previously Presented) A method for production of heterologous proteinaceous substances in plant material, comprising the steps of:

culturing, in a culture medium, plant material transformed with a construct encoding a signal peptide operably linked to a protein, that produces heterologous proteinaceous substances; and

obtaining secreted heterologous proteinaceous substances from the culture medium without disrupting producing tissues or cells;

wherein the plant material is protonema tissue selected from the group consisting of *Physcomitrella patens*, *Marchantia polymorpha*, *Ceratodon purpureus*, and *Funaria hygrometica*.

2. (Previously Presented) The method according to claim 1, characterized in that proteinaceous substances released into the culture medium are biologically active.

3. (Previously Presented) The method according to claim 1, characterized in that the culture medium is free from sugars, vitamins and phytohormones.

4-16 (Cancelled)

17. (Previously Presented) A method for the production of heterologous proteinaceous substances in plant material, comprising the steps of:

culturing, in a culture medium, photosynthetically-active plant material transformed with a construct encoding a signal peptide operably linked to a protein, that produces heterologous proteinaceous substances; and

obtaining secreted heterologous proteinaceous substances from the culture medium without disrupting producing tissues or cells,

wherein the photosynthetically-active plant material is protonema tissue selected from the group consisting of *Physcomitrella patens*, *Marchantia polymorpha*, *Ceratodon purpureus*, and *Funaria hygrometrica*.

18-21 (Cancelled)

22. (Previously Presented) The method according to claim 1, characterized in that the proteinaceous substances are antibodies capable of specific binding with antigen.

23. (Previously Presented) The method according to claim 1, characterized in that the proteinaceous substance are antibody fragments capable of specific binding with antigen, wherein the antibody fragments are F(ab) or F(ab')₂ fragments.

24. (Previously Presented) The method according to claim 1, characterized in that the proteinaceous substances are enzymes capable of converting a target substrate to product.